EQUIPMENT LIST PROJECT DESCRIPTION A. EQUIPMENT TO BE FURNISHED BY THE ADMINIST THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNALS ON THE SOUTH, EAST AND WEST LEGS OF THE INTERSECTION OF MD 4 (PENNSYLVANIA AVENUE) AT BROOKS DRIVE. THE INSTALLATION OF A CROSSWALK AND HANDICAP RAMPS ON THE WEST LEG OF THE QUANTITY ITEM INTERSECTION, AND THE INSTALLATION OF SCHOOL ZONE CROSSING SIGNS. MD 4 (PENNSYLVANIA 144 9001 AVENUE) IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. INTERSECTION OPERATION THE EXISTING TWELVE-PHASE FULLY ACTUATED NEMA CONTROLLER WILL BE USED. THIS INTERSECTION WILL OPERATE IN A NEMA SIX (6) PHASE FULL-TRAFFIC-ACTUATED MODE. EXCLUSIVE LEFT TURN PHASES ARE PROVIDED ON NORTHBOUND AND SOUTHBOUND MD 4. THE EASTBOUND AND WESTBOUND MOVEMENTS WILL OPERATE SEPARATELY. AN ALTERNATE PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE SOUTH APPROACH OF THE INTERSECTION. CONCURRENT PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE EAST AND WEST APPROACHES. MAINTENANCE OF TRAFFIC THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THIS PROJECT. STANDARD NO. 104.00 STANDARD NO. 104.44-01 (LEFT LANE CLOSURE) STANDARD NO. 104.45-01 (RIGHT LANE CLOSURE) STANDARD NO. 104.48-01 (INTERSECTION (LEFT LANE/TURN BAY CLOSURE)) STANDARD NO. 104.49-01 (SHOULDER WORK) PROJECT CONTACTS MR. MAJIB SHAKIB MR. RICHARD DAFF ASSISTANT DISTRICT ENGINEER - TRAFFIC CHIEF, TRAFFIC OPERATIONS DIVISION 301-513-7358 410-787-7630 MR. RALEIGH MEDLEY MR. ROBERT SNYDER ASSISTANT DISTRICT ENGINEER - MAINTENANCE ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS DIVISION 301-513-7304 410-787-7631 MR. AUGUSTINE REBISH MR. EDWARD RODENHIZER ASSISTANT DISTRICT ENGINEER - UTILITY CHIEF, SIGNAL OPERATIONS SECTION 301-513-7350 410-787-7652. THE POWER COMPANY REPRESENTATIVE IS: POTOMAC ELECTRIC POWER COMPANY MR. RICHARD CHILCOAT 301-931-2872 WIRING DIAGRAM 111111 <u>WIRING LEGEND</u> A,B J 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) C,D) 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) J,K) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) E,F,G,H) STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) LW } LOOP WIRE → GROUND ROD WIRING NOTES: 1) EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE. 2) CONNECT THE PROPOSED STRANDED BARE COPPER GROUND WIRE TO THE EXISTING GROUND SYSTEM, AS DIRECTED BY

THE ENGINEER.

UNITS

ALT. 4 CHANGE

FLASHING

OPERATION

	B. EQUIPMEN	T TO BE FURNISHI	ED AND/OR	INSTALLED BY THE CONTRACTOR
	ITEM	QUANTITY	UNITS	DESCRIPTION
E ADMINISTRATION	1001		EA	MAINTENANCE OF TRAFFIC
	2001	5	CY	CLASS 2 EXCAVATION
	2002	2	ĊY	TEST PIT EXCAVATION
DESCRIPTION	5003	250	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
	5004	30	LF	24 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
FLAT SHEET ALUMINUM SIGNS CONSISTING OF:	5005	30	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
- 6 EACH SI-I (36"X36"), FYG - GROUND MOUNT	NEG.	15	LF	STANDARD TYPE C COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
- 4 EACH WI6-7 (21"XI5"), FYG - GROUND MOUNT	6002	8	LF	MONOLITHIC CONCRETE MEDIAN 4 FEET O INCH WIDE TYPE A-I
- 2 EACH S4-4(3) (30"XI2"), FYG - GROUND MOUI	NT 6003	140	SF	4 INCH CONCRETE SIDEWALK
- EACH RI-2 (36"X36"X36") - GROUND MOUNT	NEG.	†	EA	FURNISH AND INSTALL ACCESS HOLE COVER ON SIGNAL POLE
- LEACH ASSOCIATED SHIELD ASSEMBLY	8001	12	EA	12 INCH PEDESTRIAN SIGNAL HEAD
(48"X75") - BAND TO POLE	8009	4	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
- LEACH ASSOCIATED SHIELD ASSEMBLY	8010	1	EA	CONDUIT BEND IN EXISTING BASE
(48"X75") - GROUND MOUNT	1108	2	EA	PUSHBUTTON AND SIGN
 2 EACH ASSOCIATED SHIELD ASSEMBLY 	802I	4	CY	CONCRETE FOR SIGNAL FOUNDATION
(30"X5I") - GROUND MOUNT	8022	120	LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
	NEG.	15	LF	WOOD SIGN SUPPORTS 4 INCH X 6 INCH
	8023	260	LF	NO.6 AWG STRANDED BARE COPPER GROUND WIRE
	8028	120	LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
	8029	50	LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
	8034	10	LF	I INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
	8041	3	EΑ	FURNISH AND INSTALL ELECTRICAL HANDHOLE
	NEG.	20	LF	WOOD SIGN SUPPORT 6 INCH X 8 INCH
·	NEG.	1	EΑ	BAND SIGN TO SIGN SUPPORT
	8042	133	SF	INSTALL GROUND MOUNTED SIGN
	8050	4	EΑ	GROUND ROD $-\frac{3}{4}$ INCH DIAMETER X IO FOOT LENGTH
	8056	1000	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG)
	8057	620	LF	ELECTRICAL CABLE - 3 CONDUCTOR (NO.14 AWG)
	8058	350	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
	8060	950	LF	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
	8061	230	LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)

PHASE CHART

			R Y G	R Y G	QR - QY - QG	(R-) (Y-) (G-)	R Y G	R Y G	R Y G	R Y G	R Y G	RYG	4		4	10000000000000000000000000000000000000		4	
PHASE 1 & 5			R	R	⊲ G-		R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
1 & 5 CHANGE				THE	CONTROL	LER MA	Y SKIP	TO PHA	SES 1 &	6 OR	2 & 5 0	IR 2 &	6						
PHASE 1 & 6	□ G -	⊲ G-	G	G	⊲R-	⊲R-	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	· <
1 & 6 CHANGE			Y	Υ		⊲R-	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	<u> </u>
PHASE 2 & 5	⊲R-	⊲R-	R	R	□ G -		G	G	R	R	R	R	DW	DW	DW	DW	DW	DW	<u> </u>
2 & 5 CHANGE	⊲R-	⊲R-	R	Ŕ	⊲Y-	⊲Y-	Y	Y	R	R	R	R	DW	DŴ	DW	DW	DW	DW -	
PHASE 2 & 6	⊲R-	⊲R-	G	G	⊲R-	⊲R-	G	G	R	R	R	R	W	W	W	W	DW	DW	0
PED CLEAR	⊲R-	⊲R-	G	G	⊲R-	⊲R-	G	G	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW	
2 & 6 CHANGE	⊲R-	⊲R-	Y	Υ	⊲R-	⊲R-	Y	Y	R	R	R	R	DW	DW	DW	DW	DW	DW	0
PHASE 3	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	⊲G- G	G	DW	DW	DW	DW	DW	DW	
3 CHANGE	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	R	R	Y	Y	DW	DW	DW	DW	DW	DW	
PHASE 4	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R [.]	R	⊲G- G	G	R	R	DW	DW	DW	DW	DW	DW	→ ↑
4 CHANGE	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	Y	Υ	R	R	DW	DW	DW	DW	DW	DW	
ALT. 4	⊲R-	⊲R-	R	R	⊲R-	⊲R-	R	R	⊲G- G	G	R	R	DW	DW	DW	DW	W	. W	ρ
PED. CLEAR	⊲R-	<1R-	R	R	⊲R-	<1R−	R	R	<1G- G	C	R	R	DW	DW .	DW	DW	FI /DW	FI /DW	

NO EQUIPMENT TO BE RETURNED TO THE SHA.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

DARK

DARK

DARK DARK

DARK

BROOKS DRIVE

DISTRICT HEIGHTS, MARYLAND GENERAL INFORMATION SHEET

DRAWN BY: A.M.H.	F.A.P. NO.	AC-STPG-000S(857)E	TS NO.						
CHECKED BY: J.F.L.	S.H.A. NO.	PG484A55	<u>963C-GI</u>	SHEET NO.					
SCALE: NONE	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO.	1					
DATE: 5/2003	LOG MILE:	16000412.60	F676	_2_0F_2_					